

Irwin Series



High Precision GNSS Receiver

Features

Tailored to smart devices, the Irwin Series is embedded Ntrip protocol and widely used in Surveying & GIS markets. The receiver is a powerful tool that can be used for power, forestry, agriculture and geological industries. Its strength comes from taking advantage of modern technology such as 4G modem, Bluetooth, Ethernet and Serial COM Ports. The Irwin will communicate with many software platforms including Apple iOS, Google Android and Microsoft Windows. In some areas without cell phone service, Irwin can work as a mobile base-station to pair with a UHF radio. The Irwin offers different models for the different purposes.

Item		IGF9P	IG617D	IG327	IG910	IG920	IG930	IG940
Overview	4G modem	√	√	√	√	√	√	√
	RS232 Serial Port	√	√	√	√	√	√	√
	Ethernet	-	-	-	RJ45 Cable/Optional			
	Bluetooth	Optional	-	-	Optional			
	Dimension	117mm x 85mm x 56mm						
Weight	530g with battery							
GNSS Performance	GNSS Brand	Ublox	Novatel	Hemisphere	Trimble	Trimble	Trimble	Trimble
	GNSS Module	M8P	OEM617D	P327	BD910	BD920	BD930	BD940
	GPS	L1C/A,L2 CL/M	L1,L2,L2C	L1,L2,L2C	L1	L1, L2	L1, L2,L5	L1 C/A, L2E, L2C, L5
	BDS	B1I,B2I	L1,L2	B1, B2, B3	B1	-	B1, B2	B1, B2
	GLONASS	L1OF,L2OF	E1, E5b	G1/G2, P1/P2	G1	G1, G2	G1, G2	L1 C/A, L2 C/A, L3 CDMA13
	Galileo	E1-B/C,E5 b/Q	E1, E5	E1, E5	E1	-	E1,E5A ,E5B, E5AltBOC	E1, E5A, E5B, E5AltBOC
	Channel	184	120	372	220	220	220	336
	Maximum update rate	10Hz	20Hz	50Hz	20Hz	20Hz	20Hz	50Hz
	Heading	-	√	√	-	-	-	-
	L-band RTK	-	-	Atlas	-	-	-	OmniSTAR, Trimble RTX
Protocol output	NMEA-0183, RAW data							
Accuracy (Internal Accord Accuracy)	Autonomous	1.5m	1.5m	1.5m	1.2m	1.2m	1.2m	1.2m
	SBAS	-	0.6	1m	0.5m	0.5m	0.5m	0.5m
	DGP	-	0.4	0.25	0.25m	0.25m	0.25m	0.25m
	RTK	2cm+1ppm (Base line<20km)	2cm+1ppm (Base line<20km)	0.01m (Base line<30Km)	0.008m (Base line<5km)	0.008m (Base line<30km)	0.008m (Base line<30km)	0.008m (Base line<30km)
Power	DC input	DC 12V, 1A						
	Detachable Li-Ion battery	3,100mAh						
Environment Specification	Operating temperature	- 20 C ~ +60 C						
	Storage temperature	- 30 C ~ +70 C						
	Sand, dust&water	IP54						
	Drop	1.5m						
Accessories	Standard accessory ²	12V/1A Adapter, Fischer to DC jack cable, DB9 Serial cross cable, SMA to TNC cable, 2.4G Bluetooth antenna, fischer to RJ45 host cable, 4G antenna						
	Optional accessory	20cm Centering rod, Irwin backpack, Serial cable for configuration, Antenna magnet mount, Fischer to RJ45 host cable						